

City of Phoenix Draft Climate Action Plan



Community Workshop

June 29, 2021



C4O
CITIES

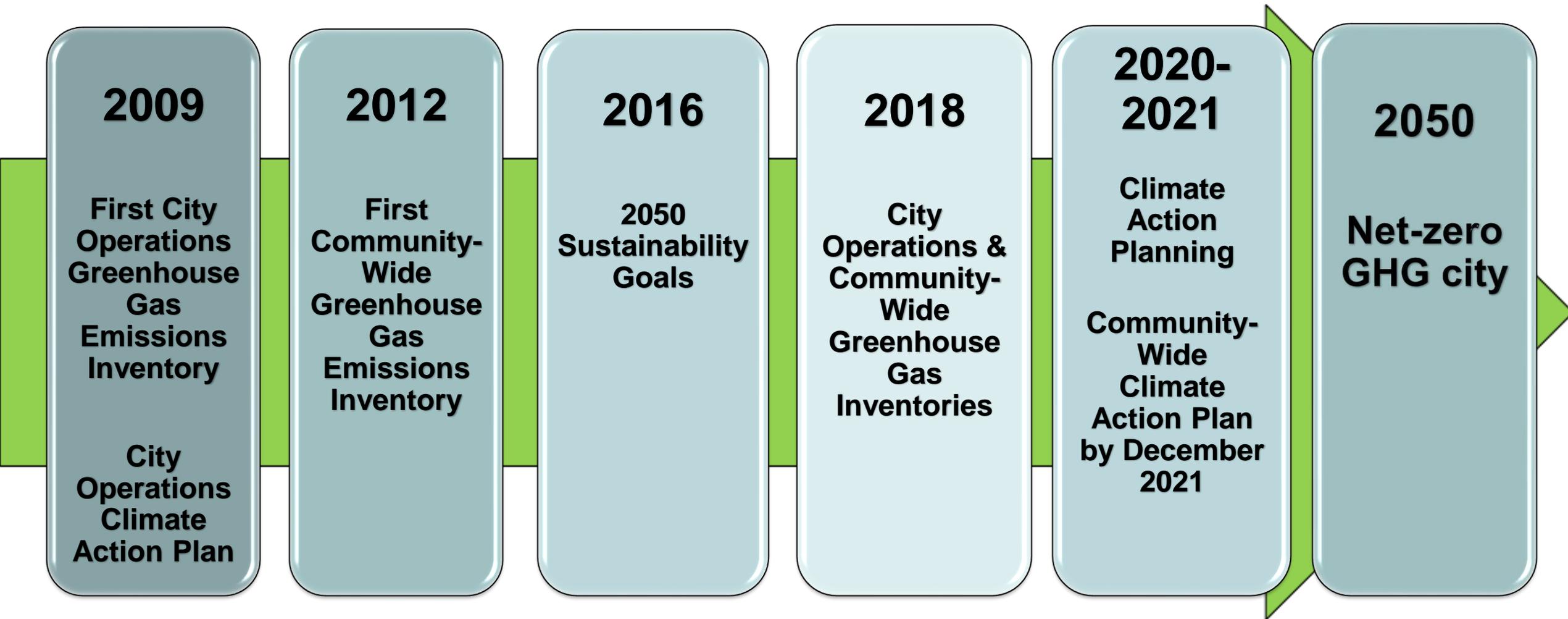
Introduction - C40 Cities



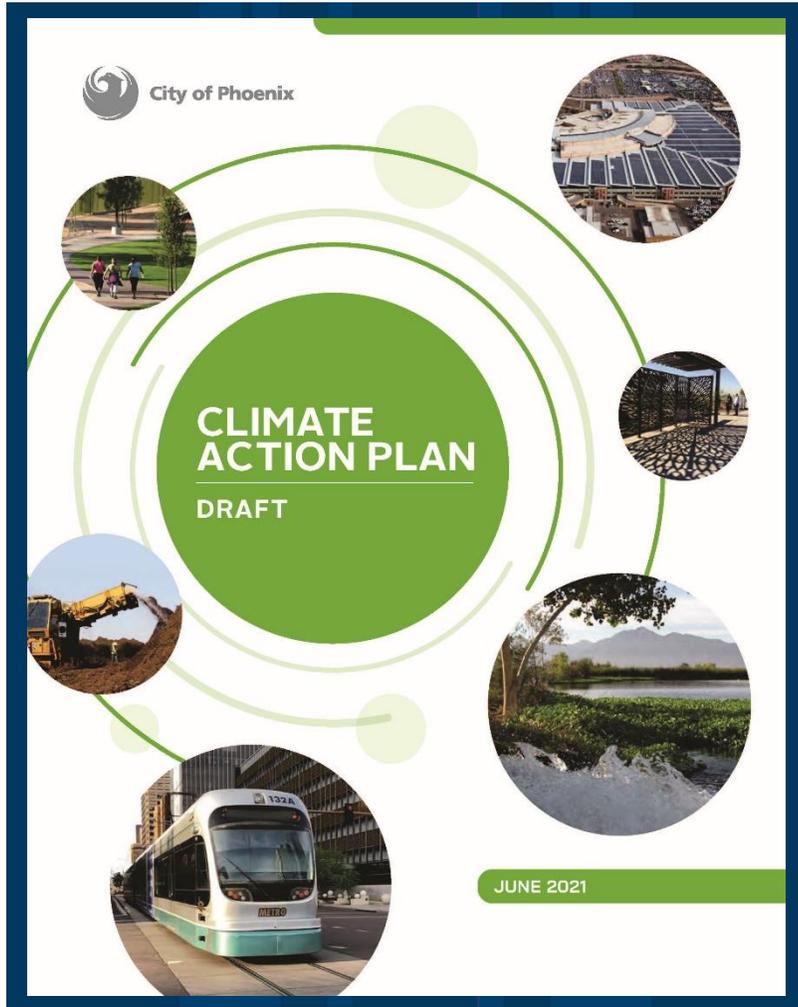
- Mayor Kate Gallego affirmed Phoenix commitment to the Paris Climate Accord – reduce GHG emissions by 2050
- Phoenix joined C40 Cities in Feb. 2020
- C40-compliant Climate Action Plan by Dec 2021
- **Deadline 2020** – 67% Reduction in GHG Emissions by 2030.



Introduction - Ongoing Efforts



Climate Action Plan Draft



GHG Emissions Reduction Goals

Stationary Energy Sector
Transportation Sector
Waste Sector

Resiliency Goals

Air Quality
Local Food Systems
Heat
Water

Climate Action Plan Draft 2050 Goals



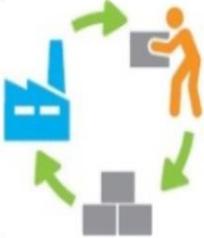
GHG Emissions Reduction Goals



New buildings are **Net Positive** in energy & materials



40% of commutes by walking, biking, transit & car-share



Zero Waste through participation in the circular economy

Resiliency Goals



Clean Air
Out-performing federal standards



A thriving vibrant **Food System**



25% Tree and shade canopy



100-Year Clean & reliable supply of water

Next Steps



Draft Plan Public Comment Period

June 2021

Public Engagement
Virtual Workshops & Survey

June 2021

Final Plan to City Council

Fall 2021

Share your Opinions and Ideas

Climate Page, Survey, Future Workshop Information

www.phoenix.gov/climate

Submit questions to
climate@phoenix.gov



[@phxenvironment](https://twitter.com/phxenvironment)

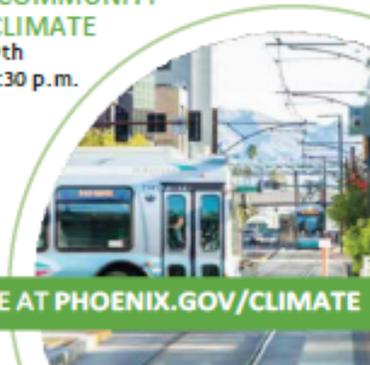


THE FUTURE OF PHOENIX **DRAFT CLIMATE ACTION PLAN**

Join the City of Phoenix and provide your input on addressing climate change. Share your concerns, needs, and ideas to co-create solutions. Your collaboration is needed to help the City determine priorities, needs, and opportunities to address climate change.

VIRTUAL WORKSHOP SERIES:

- | | |
|--|--|
| BUSINESS AND CLIMATE
June 16th
11:30 - 1:00PM | COUNCIL D7 AND D8
June 26th
10:00 - 11:30AM |
| WATER AND CLIMATE
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Help plan the Future of Phoenix

REGISTER ONLINE AT PHOENIX.GOV/CLIMATE



ZERO WASTE 
Recycling in Phoenix



City of Phoenix

Alexis Yaple
Zero Waste Team
PHX Public Works



Zero Waste by 2050



Goal: Increase waste-diversion participation by all residents and businesses.





DO NOT BLOCK
BLOCKING VIOLATES CITY CODE



95EG 000009 

Transfer Stations

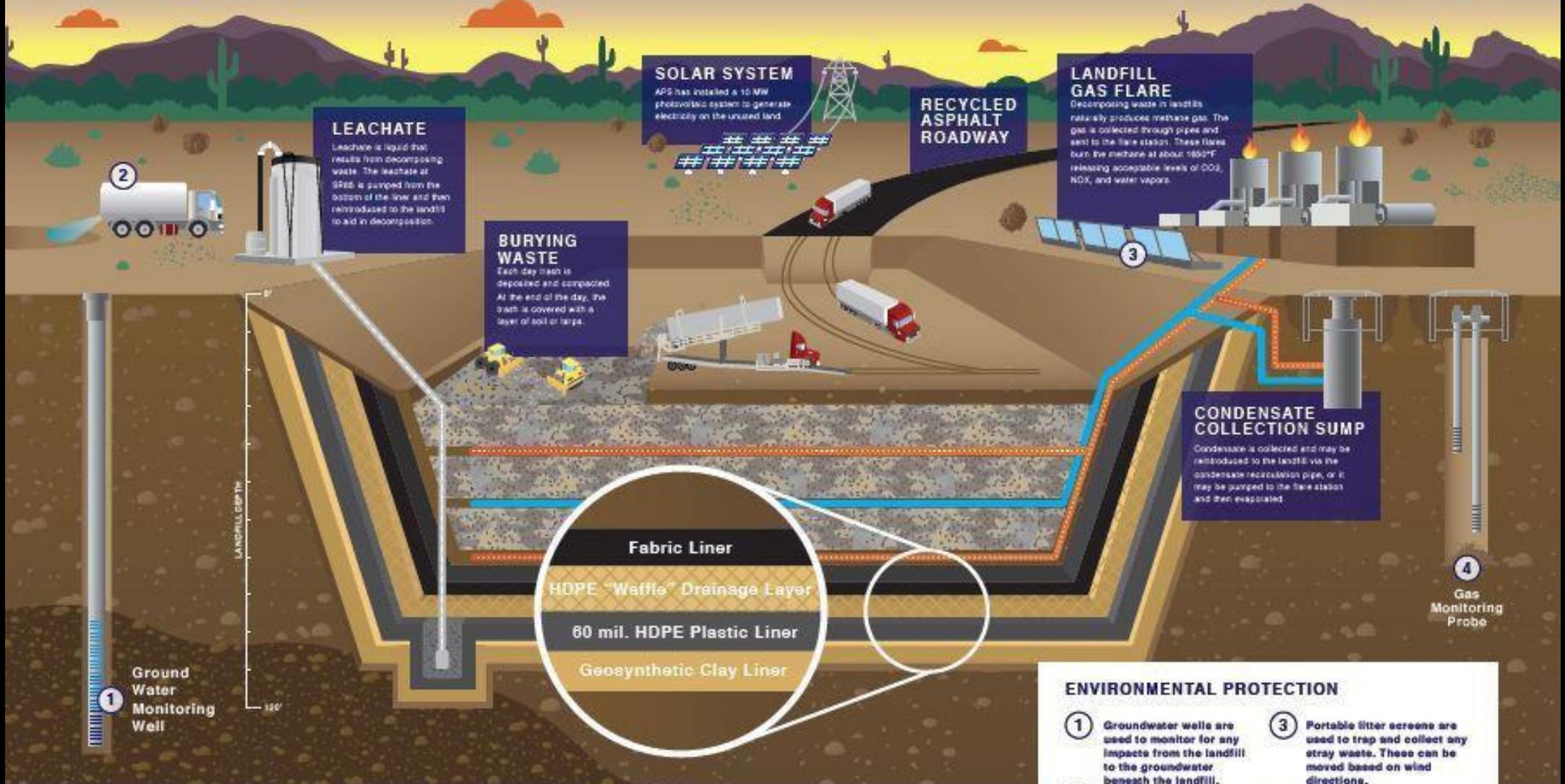




SR 85 Landfill

Goal: Reduce GHG emissions resulting from the degradation of waste by capturing landfill gas and converting 100% of the methane (up to 1500 SCFM) from the SR 85 landfill into renewable natural gas as a substitute for fossil natural gas. Have contract executed and facility constructed and operational by March 2023.

CITY OF PHOENIX LANDFILL



LEACHATE
Leachate is liquid that results from decomposing waste. The leachate at GPS is pumped from the bottom of the liner and then reintroduced to the landfill to aid in decomposition.

SOLAR SYSTEM
APS has installed a 10 MW photovoltaic system to generate electricity on the unused land.

RECYCLED ASPHALT ROADWAY

LANDFILL GAS FLARE
Decomposing waste in landfills naturally produces methane gas. The gas is collected through pipes and sent to the flare station. These flares burn the methane at about 1800°F, releasing acceptable levels of CO₂, NO_x, and water vapors.

BURYING WASTE
Each day trash is deposited and compacted. At the end of the day, the trash is covered with a layer of soil or tarps.

CONDENSATE COLLECTION SUMP
Condensate is collected and may be reintroduced to the landfill via the condensate recirculation pipe, or it may be pumped to the flare station and then evaporated.

Fabric Liner
HDPE "Waffle" Drainage Layer
60 mil. HDPE Plastic Liner
Geosynthetic Clay Liner

1 Ground Water Monitoring Well

4 Gas Monitoring Probe

ENVIRONMENTAL PROTECTION

- 1** Groundwater wells are used to monitor for any impacts from the landfill to the groundwater beneath the landfill.
- 2** To control dust, trucks spray soil areas with water, as needed.
- 3** Portable litter screens are used to trap and collect any stray waste. These can be moved based on wind directions.
- 4** Probes monitor subsurface gas at various elevations to detect if any gases escape the landfill.



LEACHATE COLLECTION PIPE LANDFILL GAS PIPE CONDENSATE RECIRCULATION PIPE





...do better
...Portland shu
...match, and keep
...Western Hockey
...and complete an
...Bucks have started 18
...they'll be

...the first inning
...tied the score
...in the seven
...Bob Raulo
...by Gary
...by Bonus
...Man Gal

...4-3

...BIRTH





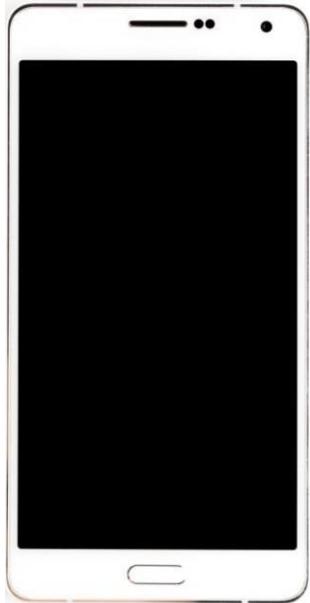
Materials Recovery Facility

Recyclables



What's Recyclable in Phoenix?

Unaccepted



What doesn't go in your recycling container?



Why can't I recycle plastic bags at home?

Eco-stations





Where do I recycle plastic bags?

ASK THE WIZARD!

English [Share](#)

 Recycle Right Wizard

 Waste Sorting Game

 Need help?

Please select your city:

-  [City of Phoenix >](#)
-  [City of Avondale >](#)
-  [City of El Mirage >](#)
-  [City of Glendale >](#)
-  [City of Goodyear >](#)
-  [City of Mesa >](#)
-  [City of Peoria >](#)
-  [City of Prescott >](#)
-  [Town of Queen Creek >](#)
-  [City of Scottsdale >](#)

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Sustainable

Purchasing



Refuse waste.
Don't buy it if you
don't need it.



Buy in minimal
packaging or
buy in bulk



Buy reusable



Buy in recyclable
packaging



DO NOT BLOCK
BLACKING HILLS CITY CODE
12101220

06 100620

DO NOT BLOCK
BLACKING HILLS CITY CODE
03130323
RE 310933



27th Ave. Compost Facility

Compost Container



What is compostable in Phoenix?



Save As You Reduce & Recycle Program



Household Hazardous Waste Program



Resource Innovation Campus

Goal: Implement programs to reduce waste, increase the reuse, recycling and recovery of waste materials and promote social and economic value



PHOENIX

GREEN

BUSINESS
LEADER



Contact us

phoenix.gov/zerowaste

Facebook: @PHXPublicWorks

Twitter: @talkingtrashPHX

Email: zerowaste@phoenix.gov

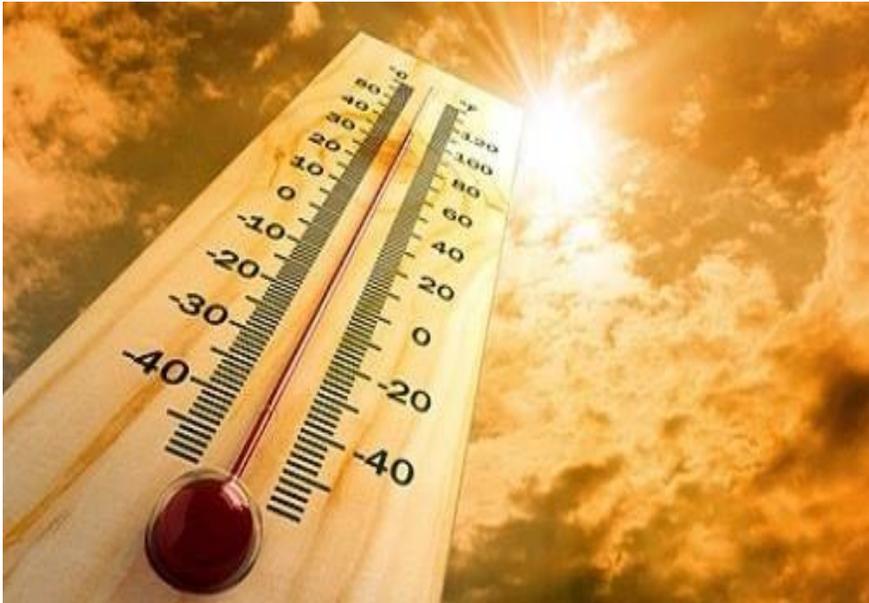


Climate Action Plan

City of Phoenix



- ✓ Stationary Energy
- ✓ Transportation
- ✓ **Waste as a Resource**
- ✓ **Air Quality**
- ✓ **Heat**
- ✓ **Local Food System**
- ✓ **Water**



The Parks and Recreation department plays a vital role in meeting the City's Climate Action Plan

City of Phoenix

- ✓ Stationary Energy
- ✓ Transportation
- ✓ **Waste as a Resource**
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- ✓ Local Food System
- ✓ Water



Eco Station

Large roll-off dumpsters have been strategically placed in City-owned parks near multifamily housing

- ✓ Stationary Energy
- ✓ Transportation
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- ✓ **Air Quality**
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Parks Board approved
the installation of
electric vehicle
charging stations at 5
City parks



- ✓ Stationary Energy
- ✓ Transportation
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- ✓ **Heat**
- ✓ Local Food System
- ✓ Water

GOALS:

- *Increase shade
- *Achieve a 25% tree and shade canopy by 2030
- *Build new parks

TREE AND SHADE MASTER PLAN

- Approved by City Council in 2010
- Double the tree and shade canopy by 2030

The Tree Donation Program

The department works with residents and businesses to fund tree planting projects

Parks and Recreation Department's Tree Planting Program

The department has planted 1500+ tree/year since 2016

Kuban Park

- Doubled in size to include more shade and trees

New Park Developments

- 55th Ave and Samantha Way
- 71st Ave and Meadow Loop Rd
- 87th Ave and Lower Buckeye Rd

Planting Trees and Building New Parks

- ✓ Stationary Energy
- ✓ Transportation
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- ✓ **Local Food System**
- ✓ Water

Community Garden at Mountain View Park

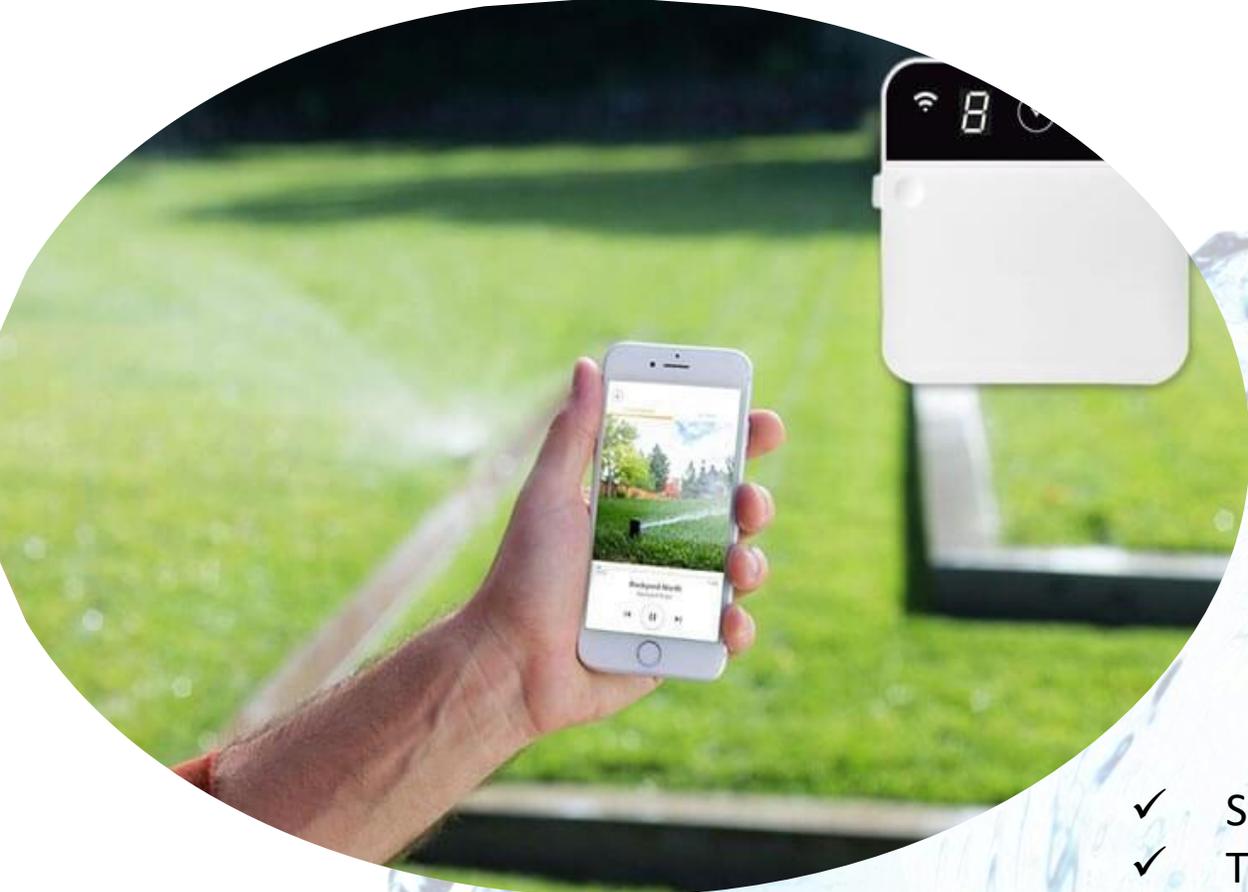
The City and Keep Phoenix Beautiful
uphold an agreement to house a
community garden

GOALS:

- *Support opportunities for urban-scale gardens and farms
- *Partner with schools, etc., to promote education for youth and adults
- *Promote farmers markets and locally-grown food



Support Locally-Grown Food



- ✓ Stationary Energy
- ✓ Transportation
- ✓ Waste as a Resource
- ✓ Air Quality
- ✓ Heat
- ✓ Local Food System
- ✓ **Water**

City invested money in acquiring Smart controllers for irrigation systems in parks

Share your Opinions and Ideas

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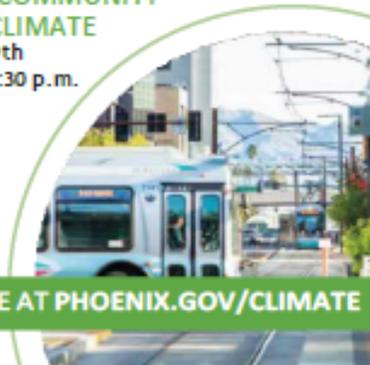


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